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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/525,610	03/24/2006	Kevin Jon Williams	W1107/20010	7982	
CAESAR, RIVISE, BERNSTEIN, COHEN & POKOTILOW, LTD. Attn: PTO Customer No. 31717 11TH FLOOR, SEVEN PENN CENTER PHILADELPHIA, PA 19103-2212			EXAMINER		
			HARRIS, ALANA M		
			ART UNIT	PAPER NUMBER	
	,		1643		
			MAIL DATE	DELIVERY MODE	
			11/02/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•		Application No.	Ар	plicant(s)				
Office Action Summary		10/525,610	WI	WILLIAMS, KEVIN JON				
		Examiner	Art	t Unit				
		Alana M. Harris, Ph.[D. 164	43 .				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sh	et with the corre	spondence addr	ess			
WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMN 36(a). In no event, however, will apply and will expire SIX (a), cause the application to become	IUNICATION. may a reply be timely fil 6) MONTHS from the mome ABANDONED (35)	led nailing date of this comi 5 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) filed on	•		•				
2a)□	•	action is non-final.						
,—	3) Since this application is in condition for allowance except for formal matters, prosecution as to the m							
- /	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)⊠	Claim(s) <u>1,6-13,57,58,60,64,66,67,78,93,110,</u>	146-149,158 and 165	<u>5-167</u> is/are pend	ling in the applic	ation.			
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
<u> </u>	Claim(s) is/are rejected.							
,	Claim(s) is/are objected to.							
•	Claim(s) 1, 6-13, 57, 58, 60, 64, 66, 67, 78, 93	, 110, 146-149, 158	<i>and 165-167</i> are	subject to restri	iction and/or			
	equirement.							
Applicati	ion Papers							
9)	The specification is objected to by the Examine	er.						
, —	The drawing(s) filed on is/are: a) acc		ed to by the Exa	miner.				
. • / ـ	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex							
·	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S	S.C. § 119(a)-(d)	or (f).				
,	☐ All b)☐ Some * c)☐ None of:							
- -/	1. Certified copies of the priority document	s have been receive	d.					
	2. Certified copies of the priority document		•	No				
	3. Copies of the certified copies of the prior				tage			
	application from the International Bureau				_			
* 5	See the attached detailed Office action for a list	of the certified copie	s not received.					
A44	.+(a)							
Attachmen	ce of References Cited (PTO-892)	4) ☐ Inte	rview Summary (PT0	D-413)				
	ce of Draftsperson's Patent Drawing Review (PTO-948)	Pap	er No(s)/Mail Date	·				
, 	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5)	ice of Informal Paten er:	t Application				

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Election/Restrictions

- 1. Applicant is put on notice that each thrombospondin fragment is regarded as an independent and distinct product. Consequently, each is subject to a separate Invention/Group. One Invention/Group is based upon one of the thirty-seven thrombospondin fragments.
- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - 1-37. Claims 1, 6-13 and 158, drawn broadly to a purified thrombospondin fragment and a purified and/or synthetic thrombospondin fragment identified as SEQ ID NO: 1-37, respectively, classified in class 530, subclass 300.
 - 38-74. Claims 57, 58, 64, 146-148 and 165-167, drawn to an antibody and a method of producing antibodies against a thrombospondin fragment identified as SEQ ID NO: 1-37, respectively, classified in class 435, subclass 70.21.
 - 75-111. Claims 60 and 149, drawn to a method of producing a peptide or non-peptide binding agent against a thrombospondin fragment identified as SEQ ID NO: 1-37, respectively, classified in class 435, subclass 89.
 - 112-148. Claims 66, 67, 78 and 93, drawn to a kit for the determination of the presence of, and/or the amount of, and/or the concentration of a thrombospondin fragment identified as SEQ ID NO: 1-37, classified in class 436, subclass 86.

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149-185. Claim 110, drawn to a method to detect the presence and/or clinical course of a neoplastic disease comprising measuring the plasma level of a thrombospondin fragment identified as SEQ ID NO: 1-37, respectively, classified in class 436, subclass 8.

2. The inventions are distinct, each from the other because of the following reasons:

Groups 1-37 and 112-148 are structurally and functionally different products, which are made by different methods and have different uses. The examination of all groups would require different searches in the U.S. Patent Shoes and the scientific literature and would require the consideration of different patentability issues.

The products of Groups 1-37 are thrombospondin fragments, which each differs in structure and amino acid residues. The products of Groups 112-148 are kits, which comprise components and reagents for a detection method.

Inventions 38-74, 75-111 and 149-185 are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, although the different inventions read on in vitro methods they differ in the method objectives, method steps and parameters and in the reagents used. For example, the methods of Inventions 38-74 requires the manipulation of the cells to produce antibodies, whereas the method of Inventions 149-185 read on detecting the level of different thrombospondin fragments to diagnose cancer.

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Inventions 1-37 and Inventions 38-74 and 149-185 are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the thrombospondin fragments of Inventions 1-37 can be used in the methods (Inventions 149-185) of detecting the level of different thrombospondin fragments to diagnose cancer, as well used in the methods (Inventions 38-74) of making antibodies specific to each fragment.

- 3. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 4. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
- (a) the inventions have acquired a separate status in the art in view of their different classification;

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(b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;

- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

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If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions

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unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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7.

Effective November 1, 2007, if applicant wishes to present more than 5 independent claims or more than 25 total claims in an application, applicant will be required to file an examination support document (ESD) in compliance with 37 CFR 1.265 before the first Office action on the merits (hereafter "5/25 claim threshold"). See Changes to Practice for Continued Examination Filings, Patent Applications Containing Patentably Indistinct Claims, and Examination of Claims in Patent Applications, 72 Fed. Reg. 46715 (Aug. 21, 2007), 1322 Off. Gaz. Pat. Office 76 (Sept. 11, 2007) (final rule). The changes to 37 CFR 1.75(b) apply to any pending applications in which a first Office action on the merits (FAOM) has not been mailed before November 1, 2007. Withdrawn claims will not be taken into account in determining whether an application exceeds the 5/25 claim threshold. For moreinformation on the final rule, please see

http://www.uspto.gov/web/offices/pac/dapp/opla/presentation/clmcontfinalrule.html.

In response to the restriction requirement set forth in this Office action, applicant is required to file an election responsive to the restriction requirement. Applicant may not file a suggested restriction requirement (SRR) in lieu of an election responsive to the restriction requirement as a reply. A SRR alone will not be considered a bona-fide reply to this Office action.

If applicant elects an invention that is drawn to no more than 5 independent claims and no more than 25 total claims, applicant will not be required to file an ESD in compliance with 37 CFR 1.265 that covers each of the elected claims. If the elected invention is drawn to more than 5 independent claims or more than 25 total claims, applicant may file an amendment canceling a number of elected claims so that the elected invention would be drawn to no more than 5 independent claims and no more than 25 total claims.

If the restriction requirement is mailed on or after November 1, 2007, applicant is also required to file an ESD in compliance with 37 CFR 1.265 that covers each of the elected claims, unless the elected invention is drawn to no more than 5 independent claims and no more than 25 total claims taking into account any amendment to the claims. To avoid the abandonment of the application, the ESD (if required) and the election must be filed within TWO MONTHS from the mailing date of this Office action. The two-month time period for reply is extendable under 37 CFR 1.136.

If the restriction requirement is mailed before November 1, 2007, the election must be filed within ONE MONTH or THIRTY DAYS, whichever is longer, from the mailing date of this Office action. The time period for reply is extendable under 37 CFR 1.136. Furthermore, if the elected invention is drawn to more than 5 independent claims or more than 25 total claims taking into account any amendment to the claims, the Office will notify applicant and provide a time period in which applicant is required to file an ESD in compliance with 37 CFR 1.265 covering each of the elected claims or amend the application to contain no more than 5 independent elected claims and no more than 25 total elected claims.

8. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Alana M. Harris, Ph.D. whose telephone number is

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(571) 272-0831. The Examiner works a flexible schedule, however she can normally be reached between the hours of 7:30 am to 6:30 pm, with alternate Fridays off.

If attempts to reach the Examiner by telephone are unsuccessful, the examiner's supervisor, Larry R. Helms, Ph.D. can be reached on (571) 272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALANA M. HARRIS, PH.D.

PRIMARY EXAMINER

Alana M. Harris, Ph.D.

16 October 2007